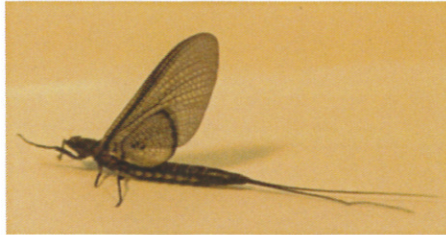


# UMR Mayfly Emergence Reporting – 2014

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- 1) Record the species of mayfly you observe



***Bilineata***  
(brown or black)

or



***Limbata***  
(yellow)

or **Both**

- 2) Record the observation site/location (e.g., trees on right descending bank at river mile 716; light pole at 7<sup>th</sup> Street landing; Walgreens store on Mormon Coulee Road; latitude/longitude; etc.)
- 3) Record wind direction (i.e., blowing from) and speed using the Beaufort Scale (see opposite side)
- 4) Record relative size of mayfly emergence using the Johnson Scale (see opposite side)
- 5) Update your initial observations during the day/night - mayfly abundance may change hourly!

- 
- Report each mayfly emergence event (day or night) to [mark\\_steingraeber@fws.gov](mailto:mark_steingraeber@fws.gov) or call 608-783-8436
  - Continue recording mayfly emergence events throughout the summer
  - Please return all your emergence observation records to Mark Steingraeber by September 1<sup>st</sup> - **PHOTOS WELCOME!**

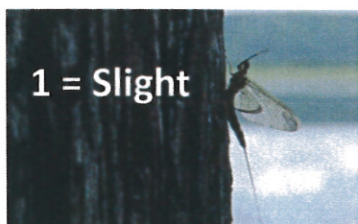


# Beaufort Wind Speed Scale

Beaufort Number	Land Condition
0	Calm. Smoke rises vertically.
1	Smoke drift indicates wind direction and wind vanes cease moving.
2	Wind felt on exposed skin. Leaves rustle and wind vanes begin to move.
3	Leaves and small twigs constantly moving, light flags extended.
4	Dust and loose paper raised. Small branches begin to move.
5	Branches of a moderate size move. Small trees in leaf begin to sway.
6	Large branches in motion. Whistling heard in overhead wires. Umbrella use becomes difficult. Empty plastic garbage cans tip over.
7	Whole trees in motion. Effort needed to walk against the wind.

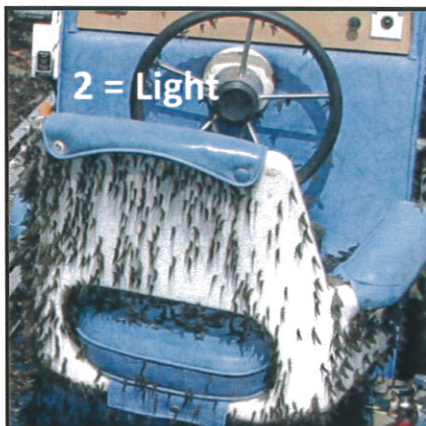
## Johnson Mayfly Emergence Scale

**1 = Slight**



Total individuals in immediate observation area range from 1-50.

**2 = Light**



Total individuals in immediate observation area range 100-500.

**3 = Moderate**



Consistent coverage of surfaces (paved areas, building walls, windows); small groups of individuals under lights.

**4 = Heavy**



Large groups of individuals form small "piles" under lights; very thick coverage of surfaces - minimal surface area exposed.

**5 = Very Heavy**



Very noticeable groups of individuals under lights, including medium to large-sized "piles"; thick coverage of surfaces.

**Phone:**[illegible]

Please return all reports by September 1, 2014 to: Mark Steingraeber, USFWS, Fish and Wildlife Conservation Office, 555 Lester Avenue, Onalaska, WI 54650